SEQUENCE LISTING

<110> Gene Shears Pty. Limited
Paul, Wyatt
Perez, Pascaul
Huttner, Eric
Betzner, Andreas S

<120> Protein Complementation In Transgenic Plants

<130> P19629US/TJF

<140> US 09/377,502
<141> 1999-08-20

<150> PCT/GB98/00542
<151> 1998-02-20

<150> GB 97/03681.8
<151> 1997-02-21

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<170> PatentIn version 3.2

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ctt cag aca tat cat aag cta cct gat aat tac att aca aaa tca gaa      98
Leu Gln Thr Tyr His Lys Leu Pro Asp Asn Tyr Ile Thr Lys Ser Glu
15                  20                  25                  30

gca caa gcc ctc ggc tgg gtg gca tca aaa ggg aac ctt gca gac gtc     146
Ala Gln Ala Leu Gly Trp Val Ala Ser Lys Gly Asn Leu Ala Asp Val
                35                  40                  45

gct ccg ggg aaa agc atc ggc gga gac atc ttc tca aac agg gaa ggc     194
Ala Pro Gly Lys Ser Ile Gly Gly Asp Ile Phe Ser Asn Arg Glu Gly
            50                  55                  60

aaa ctc ccg ggc aaa agc gga cga aca tgg cgt gaa gcg gat att aac     242
Lys Leu Pro Gly Lys Ser Gly Arg Thr Trp Arg Glu Ala Asp Ile Asn
        65                  70                  75

tat aca tca ggc ttc aga aat tca gac cgg att ctt tac tca agc gac     290
Tyr Thr Ser Gly Phe Arg Asn Ser Asp Arg Ile Leu Tyr Ser Ser Asp
    80                  85                  90

tgg ctg att tac aaa aca acg gac cat tat cag acc ttt aca aaa atc     338
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1 5 10 15

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20 25 30

Ala Leu Gly Trp Val Ala Ser Lys Gly Asn Leu Ala Asp Val Ala Pro
35 40 45

Gly Lys Ser Ile Gly Gly Asp Ile Phe Ser Asn Arg Glu Gly Lys Leu
50 55 60

Pro Gly Lys Ser Gly Arg Thr Trp Arg Glu Ala Asp Ile Asn Tyr Thr
65 70 75 80

Ser Gly Phe Arg Asn Ser Asp Arg Ile Leu Tyr Ser Ser Asp Trp Leu
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Ile Tyr Lys Thr Thr Asp His Tyr Gln Thr Phe Thr Lys Ile Arg
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<400> 4
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gcatcaaaag ggaacc 16

<210> 6
<211> 228
<212> DNA
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atttttcttc aaactctgat cggtcaattt cactttccgg atccggtcca atctgcagcc 120

gtccgagaca ggaggacatc gtccagctga aaccggggca gaatccggcc atttctgaag 180

agaaaaatgg taaactgata gaataaaatc ataagaaagg agccgcac 228

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Met Lys Lys Ala Val Ile Asn Gly Glu Gln Ile Arg Ser Ile Ser Asp
1 5 10 15

ctc cac cag aca ttg aaa aag gag ctt gcc ctt ccg gaa tac tac ggt 96
Leu His Gln Thr Leu Lys Lys Glu Leu Ala Leu Pro Glu Tyr Tyr Gly
20 25 30

gaa aac ctg gac gct tta tgg gat tgt ctg acc gga tgg gtg gag tac 144
Glu Asn Leu Asp Ala Leu Trp Asp Cys Leu Thr Gly Trp Val Glu Tyr
35 40 45

ccg ctc gtt ttg gaa tgg agg cag ttt gaa caa agc aag cag ctg act 192
Pro Leu Val Leu Glu Trp Arg Gln Phe Glu Gln Ser Lys Gln Leu Thr
50 55 60

gaa aat ggc gcc gag agt gtg ctt cag gtt ttc cgt gaa gcg aaa gcg 240
Glu Asn Gly Ala Glu Ser Val Leu Gln Val Phe Arg Glu Ala Lys Ala
65 70 75 80

gaa ggc tgc gac atc acc atc ata ctt tct taa tacgatcaat gggagatgaa 293
Glu Gly Cys Asp Ile Thr Ile Ile Leu Ser
85 90

caatatagat cccccgggct gcaggaattc 323

<210> 8
<211> 90
<212> PRT
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1 5 10 15

Leu His Gln Thr Leu Lys Lys Glu Leu Ala Leu Pro Glu Tyr Tyr Gly
20 25 30

Glu Asn Leu Asp Ala Leu Trp Asp Cys Leu Thr Gly Trp Val Glu Tyr
35 40 45

Pro Leu Val Leu Glu Trp Arg Gln Phe Glu Gln Ser Lys Gln Leu Thr
50 55 60

Glu Asn Gly Ala Glu Ser Val Leu Gln Val Phe Arg Glu Ala Lys Ala
65 70 75 80

Glu Gly Cys Asp Ile Thr Ile Ile Leu Ser
85 90

<210> 9
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<212> DNA
<213> Artificial

<220>
<223> Figure 1C: B3 Primer

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<220>
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1 5 10

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Leu Gln Thr Tyr His Lys Leu Pro Asp Asn Tyr Ile Thr Lys Ser Glu
15 20 25 30

gca caa gcc ctc ggc tgg atg ggc ggt ggc ggt tcc ggt ggc ggt ggc 146
Ala Gln Ala Leu Gly Trp Met Gly Gly Gly Gly Ser Gly Gly Gly Gly
35 40 45

agc ggc ggc ggt ggt agc ggg atc ccc ggg tac ggt cag tcc ctt atg 194
Ser Gly Gly Gly Gly Ser Gly Ile Pro Gly Tyr Gly Gln Ser Leu Met
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<213> Artificial

<220>
<223> Figure 1D

<400> 11

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Thr Tyr His Lys Leu Pro Asp Asn Tyr Ile Thr Lys Ser Glu Ala Gln
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Ala Leu Gly Trp Met Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly
35 40 45

Gly Gly Gly Ser Gly Ile Pro Gly Tyr Gly Gln Ser Leu Met
50 55 60

<210> 12
<211> 526
<212> DNA
<213> Artificial

<220>
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agagcagcga caccatcgac aatgtcaagg ccaagatcca agacaaagaa ggtatcattc 120

ttcctcactc aatctggatt cttctcttta gctttttgaa attcagatct cttatcattt 180

acttgtttct cctttaagga atccctccgg atcagcagag attgatcttc gccggaaagc 240

agctcgaaga tggccgtact ttggctgact acaacatcca gaaaggtacg aaatcatccg 300

aatccttctg ttgatcattt cgatgatctg attgtataaa ctctaatgga ttgttatcat 360

ttgtaaacag aatctacact tcatcttgtg ttgaggctta gaggtggagc acaggttatc 420

aacacgtttg acggggttgc ggattatctt cagacatatc ataagctacc tgataattac 480

attacaaaat cagaagcaca agccctcggc tggatgtaga ggatcc 526

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<212> DNA
<213> Artificial

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agagcagcga ccatcgacaa tgtcaaggcc aagatccaag acaaagaagg tatcattctt 120

cctcactcaa tctggattct tctctttagc tttttgaaat tcagatctct tatcatttac 180

ttgtttctcc tttaaggaat ccctccggat cagcagagat tgatcttcgc cggaaagcag 240

ctcgaagatg gccgtacttt ggctgactac aacatccaga aaggtacgaa atcatccgaa 300

tccttctgtt gatcatttcg atgatctgat tgtataaact ctaatggatt gttatcattt 360

gtaaacagaa tctacacttc atcttgtgtt gaggcttaga ggtggagcat caaaagggaa 420

ccttgcagac gtcgctccgg ggaaaagcat cggcggagac atcttctcaa acagggaagg 480

caaactcccg ggcaaaagcg gacgaacatg gcgtgaagcg gatattaact atacatcagg 540

cttcagaaat tcagaccgga ttctttactc aagcgactgg ctgatttaca aaacaacgga 600

ccattatcag acctttacaa aaatcagata a 631

<210> 14
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<212> DNA
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<400> 14
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<210> 15
<211> 19
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<400> 15
catccagccg agggcttgt 19

<210> 16
<211> 16
<212> DNA
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<400> 16
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<210> 17
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<400> 17
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<210> 18
<211> 18
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<210> 19
<211> 31
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gcatcaaaag ggaacc 16

<210> 21

<211> 17
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<400> 21
ggtctagagt acttgtg 17

<210> 22
<211> 30
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<400> 22
gctctagacc atgcagatct tcgtgaaaac 30

<210> 23
<211> 25
<212> DNA
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<400> 23
ctggatccac ctctaagcct caaca 25

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tatggatccc ccgggctgca ggaa 24

<210> 25
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tccacctcta agcctcaaca c 21

<210> 26
<211> 23
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<400> 26
gcggatccat gaaggagacc gcc 23

<210> 27
<211> 56
<212> DNA
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<400> 27
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<210> 28
<211> 22
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<223> Figure 3A: Lane 3, RN1

<400> 28
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<210> 29
<211> 28
<212> DNA
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<220>
<223> Fig 3A: lane 4, Primer

<400> 29
ccagatctat gagctcctcc aactactg 28

<210> 30
<211> 63
<212> DNA
<213> Artificial

<220>
<223> Fig 3A: lanes 2/5, RNII

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tct 63

<210> 31
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<212> DNA
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<400> 31
tcaggttcct agacttcatc a 21

<210> 32
<211> 59
<212> DNA
<213> Artificial

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<210> 33
<211> 19
<212> DNA
<213> Artificial

<220>
<223> Fig 3A: lane 8, RN3

<400> 33
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<210> 34
<211> 48
<212> DNA
<213> Artificial

<220>
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<400> 34
cgatgtccag gccgtctgca gccagaagaa cgtggcctgc aagaacgg 48

<210> 35
<211> 21
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<220>
<223> Fig 3A: lane 10, RN 4

<400> 35
agttggtctg accgttcttg c 21

<210> 36
<211> 60
<212> DNA
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<210> 37
<211> 19
<212> DNA
<213> Artificial

<220>
<223> Fig 3A: lane 12, RN5

<400> 37
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<210> 38
<211> 55
<212> DNA
<213> Artificial

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<223> Fig 3A: lanes 11/13, RN VI

<400> 38
ctccagcaag taccctaact gcgcctacaa gaccacccag gccaacaagc acatc 55

<210> 39
<211> 21
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<400> 39
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<210> 40
<211> 24
<212> DNA
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<220>
<223> Fig 3A: lane 15, Primer RN-b

<400> 40
cgggatcctt tagacggagg cgtc 24

<210> 41
<211> 66
<212> DNA
<213> Artificial

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<223> Fig 3A: lanes 13/16, RN VII

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atcccg 66

<210> 42
<211> 23
<212> DNA
<213> Artificial

<220>
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<400> 42
gcggatccat gaaggagacc gcc 23

<210> 43
<211> 56
<212> DNA
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<400> 43
gcggatccat gaaggagacc gccgccgcca agttcgagcg ccagcacatg gacagc 56

<210> 44
<211> 18
<212> DNA
<213> Artificial

<220>
<223> Fig 3B, lane 3, RN 7

<400> 44
ccaccgccgc tgtccatg 18

<210> 45
<211> 57
<212> DNA
<213> Artificial

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<400> 45
ggcggtggcg gttccggtgg cggtggcagc ggcggcggtg gtagcaagat cttcggg 57

<210> 46
<211> 18
<212> DNA
<213> Artificial

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<223> Fig 3B: lane 5, RN c

<400> 46
cccgaagatc ttgctacc 18

<210> 47
<211> 45
<212> DNA
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<220>
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<400> 47
aaagagacag cagccgcaaa gtttgagcgt cagcatatgg atagt 45

<210> 48
<211> 32
<212> PRT
<213> Artificial

<220>
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1 5 10 15

Xaa Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
20 25 30

<210> 49
<211> 63
<212> DNA
<213> Artificial

<220>
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<400> 49
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tct 63

<210> 50
<211> 106
<212> DNA
<213> Artificial

<220>
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<400> 50
ggatccatga aggagaccgc cgccgccaag ttcgagcgcc agcacatgga cagcggcggt 60

ggcggttccg gtggcggtgg cagcggcggc ggtggtagca agatct 106

<210> 51
<211> 330
<212> DNA
<213> Artificial

<220>
<223> Fig 4B: lane 1

<400> 51
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accaaggaca gatgtaagcc agttaacaca tttgtccacg agagtttggc tgatgtccaa 120

gccgtctgca gtcagaaaaa cgttgcatgc aagaacggtc aaacgaactg ttaccagagt 180

tacagcacca tgtccatcac tgactgtcgt gagacaggct cgagcaagta tcctaattgt 240

gcttacaaga ccacacaggc gaacaaacac atcattgttg cttgtgaagg taacccttac 300

gttcctgtcc actttgacgc cagtgtttaa 330

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<211> 132
<212> PRT
<213> Artificial

<220>
<223> Fig 4B: lane 2

<400> 52

Met Ser Thr Ser Ala Ala Ser Ser Ser Asn Tyr Cys Asn Gln Met Met
1 5 10 15

Lys Ser Arg Asn Leu Thr Lys Asp Arg Cys Lys Pro Val Asn Thr Phe
20 25 30

Val His Glu Ser Leu Ala Asp Val Gln Ala Val Cys Ser Gln Lys Asn
35 40 45

Val Ala Cys Lys Asn Gly Gln Thr Asn Cys Tyr Gln Ser Tyr Ser Thr
50 55 60

Met Ser Ile Thr Asp Cys Arg Glu Thr Gly Ser Ser Lys Tyr Pro Asn
65 70 75 80

Cys Ala Tyr Lys Thr Thr Gln Ala Asn Thr Asp Cys Arg Glu Thr Gly
85 90 95

Ser Ser Lys Tyr Pro Asn Cys Ala Tyr Lys Thr Thr Gln Ala Asn Lys
100 105 110

His Ile Ile Val Ala Cys Glu Gly Asn Pro Tyr Val Pro Val His Phe
115 120 125

Asp Ala Ser Val
130

<210> 53
<211> 346
<212> DNA
<213> Artificial

<220>
<223> Fig 4B, lane 3

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aggaacctga ccaaggacag gtgcaagcca gtcaacacct tcgtccacga gagcctggcc 120

gatgtccagg ccgtctgcag ccagaagaac gtggcctgca agaacggtca gaccaactgc 180

taccagtcct acagcaccat gtccatcacc gactgccgcg agaccggctc cagcaagtac 240

cctaactgcg cctacaagac cacccaggcc aacaagcaca tcattgttgc ctgcgagggt 300

aacccttacg tgcctgtcca cttcgacgcc tccgtctaaa ggatcc 346

<210> 54
<211> 331
<212> DNA
<213> Artificial

<220>
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gacaggtgca agccagtcaa cacctccgtc cacgagagcc tggccgatgt ccaggccgtc 120

tgcagccaga agaacgtggc ctgcaagaac ggtcagacca actgctacca gtcctacagc 180

accatgtcca tcaccgactg ccgcgagacc ggctccagca agtaccctaa ctgcgcctac 240

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gtccacttcg acgcctccgt ctaaaggatc c 331

<210> 55
<211> 163
<212> DNA
<213> Artificial

<220>
<223> Fig 4C i

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cggtgggcgg agctactacc gccagctctc aacggcggcg atcgtggaac agagacacca 120

gcacggtggc ggcgcgtttg gaagcttcca cttaagcgga tcc 163

<210> 56
<211> 198
<212> DNA
<213> Artificial

<220>
<223> Fig 4C ii

<400> 56
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tactaccgcc agctctcaac ggcggcgatc gtggaacaga gacaccagca cggtggcggc 120

gcgtttggaa gcttccactt aagaaggatg aaggagaccg ccgccgccaa gttcgagcgc 180

cagcacatgg acagctaa 198

<210> 57
<211> 270
<212> DNA
<213> Artificial

<220>
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tactaccgcc agctctcaac ggcggcgatc gtggaacaga gacaccagca cggtggcggc 120

gcgtttggaa gcttccactt aagaaggatg aaggagaccg ccgccgccaa gttcgagcgc 180

cagcacatgg acagcggcgg tggcggttcc ggtggcggtg gcagcggcgg cggtggtagc 240

gggatccccg ggtacggtca gtcccttatg 270

<210> 58
<211> 465
<212> DNA
<213> Artificial

<220>
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tactaccgcc agctctcaac ggcggcgatc gtggaacaga gacaccagca cggtggcggc 120

gcgtttggaa gcttccactt aagaaggatg agctcctcca actactgcaa ccagatgatg 180

aagtctagga acctgaccaa ggacaggtgc aagccagtca acacctccgt ccacgagagc 240

ctggccgatg tccaggccgt ctgcagccag aagaacgtgg cctgcaagaa cggtcagacc 300

aactgctacc agtcctacag caccatgtcc atcaccgact gccgcgagac cggctccagc 360

aagtacccta actgcgccta caagaccaca caggccaaca agcacatcat tgttgcctgc 420

gagggtaacc cttacgtgcc tgtccacttc gacgcctccg tctaa 465

<210> 59
<211> 715
<212> DNA
<213> Artificial

<220>
<223> Fig 4C v

<400> 59
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gacaccatcg acaatgtcaa ggccaagatc caagacaaag aaggtatcat tcttcctcac 120

tcaatctgga ttcttctctt tagctttttg aaattcagat ctcttatcat ttacttgttt 180

ctcctttaag gaatccctcc ggatcagcag agattgatct tcgccggaaa gcagctcgaa 240

gatggccgta ctttggctga ctacaacatc cagaaaggta cgaaatcatc cgaatccttc 300

tgttgatcat ttcgatgatc tgattgtata aactctaatg gattgttatc atttgtaaac 360

agaatctaca cttcatcttg tgttgaggct tagaggtgga tccagctcca actactgcaa 420

ccagatgatg aagtctagga acctgaccaa ggacaggtgc aagccagtca acacctccgt 480

ccacgagagc ctggccgatg tccaggccgt ctgcagccag aagaacgtgg cctgcaagaa 540

cggtcagacc aactgctacc agtcctacag caccatgtcc atcaccgact gccgcgagac 600

cggctccagc aagtacccta actgcgccta caagaccaca caggccaaca agcacatcat 660

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